

Substrates (Direct)

- Cold rolled steel
- Hot rolled steel
- Aluminum
- Galvanized
- Galvanneal
- Plastics¹
- Fiberglass¹

Substrates (Over primer)

- Blasted steel
- Plastics
- Fiberglass

Suggested Primers

- Spectracron branded epoxy and urethane primers

End Use Markets

- Building materials
- Industrial equipment
- Fasteners
- Medical device
- Furniture and racking
- Telecommunications

Product Codes

- QT310HC – High gloss clear
- QT310HW – High gloss white
- QT310LC – Low gloss clear
- QT310LW – Low gloss white

SPECTRACRON® 310 Series 2K Polyurethane Enamels have excellent abrasion and chemical resistance. They can be used as a smooth or textured finish and are suitable for applications requiring superior hardness and flexibility.

Product Highlights

- Can be sprayed smooth or textured finish
- Strong hardness and flexibility
- Contains no heavy metals
- Available in a wide range of colors and gloss
- Excellent chemical resistance
- Excellent mar and abrasion resistance

Physical Properties

Property	Blended Value
Solids % by weight	56.0 ± 5.0
Solids % by volume	41.0 ± 3.0
Weight / Gallon	9.8 – 11.2 lbs. /gal. (1176 – 1344 g/L)
Coverage @ 1 mil, 100% TE	593 – 722 ft. ² /gal. (55 – 67 m ² /3.785L)
60° Gloss	10 – 60
VOC (less exempts)	4.8 lbs./gal. (576 g/L)
VOC (actual)	4.8 lbs./gal. (576 g/L)
HAPS	1.0 – 1.8 lbs./gal. (120 - 216 g/L)
Shelf life	2 years (each component)

Performance Properties

Test	Result*
Pencil hardness	H – 2H
Conical mandrel (1/8")	Pass
Adhesion	5B
Salt Spray	200 – 1000 hours
Humidity	200 hours

*results obtained over iron phosphate CRS panels. Salt spray performance is dependent on primer used.



SPECTRACRON® 310 Series

2K Polyurethane Enamel

Substrate Protection

The surface must be clean and free of all surface contamination. A chemical pretreatment such as PPG Chemfos® KA Cleaner/Coater or a similar conversion coating will improve the performance properties of the coating system. See your PPG Representative for recommendations.

Cure Schedule

Paint film is not fully cured for 7 days. Drying time listed may vary, depending upon film build, color selection, temperature, humidity and degree of air movement.

Physical Properties

Air Dry Times²

To Texture 10 – 15 min.

To Touch 20 min.

To Handle 1 hour

To Recoat Up to 48 hours

Force Dry Times

Flash Time 10 min. (ambient)

Temperature Up to 140°F (60°C)

Time at Temperature 30 min.

Mix Directions

Blend Ratio³ 6:1 with Q3606A interior
8:1 with Q3501 exterior

Pot Life 8 hours

Reduction 25 – 50% by volume with Q30, Q50, Q160, or TFS Blends

Application Viscosity 20 – 25" #2 EZ Zahn cup

Line/Flush Clean Up Q30, Q60 or Q120

Application

Equipment Conventional, HVLP

Recommended Wet Film Build 4.0 – 4.5 mils
102 – 114 microns

Recommended Dry Film Build 1.0 – 1.5 mils
25 – 38 microns

Additional Information

In-Service Temperature: 180°F (82°C)

Do not apply at temperatures below 50°F (10°C)

Protect from freezing

Avoid moisture contamination of the B Component as moisture can cause gelling and affect performance

Add up to 6 ounces per blended gallon of *Spectracron* Urethane Accelerator (AU-11) to increase rate of cure. Do not exceed 6 ounces

Footnotes

1. Due to the variability in plastic and fiberglass substrates, it's highly recommended to test adhesion on a small sample before application.
2. Excess film thickness will retard dry times and affect the recoat window.
3. No-mixing or improper mixing can result in performance issues and curing issues.

The technical data presented is information believed by PPG to be currently accurate; however, no guarantee of accuracy, comprehensiveness or performance is given or implied. Continuous improvements in coating technology may cause future technical data to vary from what is in this document. Product is intended for application by trained personnel in a factory or shop application. Do not attempt to use product without the current Safety Data Sheet. The performance of a product can fluctuate due to surface preparation technique, method of application, operating conditions, the material it is applied to or with, and use. It is strongly recommended that products be tested with respect to these factors prior to full scale use.

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